

hR1Z	60	QNTTEVA	ATETLAEVPE	HVLRCLPEEV	RLFPSAVDKT	RIGVWATKPI	LKGKKEGPFV
rR1Z	59	QNTTESVA	ATETLAEVPE	HVLRCLPEEV	RLFPSAVDKT	RIGVWATKPI	LKGKKEGPFV
Consensus	60	QNTTEVA	ATETLAEVPE	HVLRCLPEEV	RLFPSAVDKT	RIGVWATKPI	LKGKKEGPFV
hR1Z	120	GDKKRSQVK	NNVYMWEVYY	PNLGWMCIDA	TOPEKGNWLR	YVNWACSGEE	QNLFPLEINR
rR1Z	119	GDKKRSQVR	NNVYMWEVYY	PNLGWMCIDA	TOPEKGNWLR	YVNWACSGEE	QNLFPLEINR
Consensus	120	GDKKRSQV	NNVYMWEVYY	PNLGWMCIDA	TOPEKGNWLR	YVNWACSGEE	QNLFPLEINR
hR1Z	180	AIYYKTLKPI	APGEELLVWY	NGEDNPEIAA	AIEERASAR	SKRSSPKSRK	GKKKSLENKN
rR1Z	179	AIYYKTLKPI	APGEELLVWY	NGEDNPEIAA	AIEERASAR	SKRSSPKSRR	GKKKSLENKN
Consensus	180	AIYYKTLKPI	APGEELLVWY	NGEDNPEIAA	AIEERASAR	SKRSSPKSRI	GKKKSLENKN
hR1Z	240	KGNKIQDIQL	KISEIDTEA	NMRISAEGPK	EDENPSASA	TEQPAILEV	ASQEVFPEIA
rR1Z	239	KGIRTHPTQL	KISEIDTEA	NMRISAEGPK	EDENPSASA	TEQPAILEV	DNQDAUPQVA
Consensus	240	KG.....QL	KISEIDTEA	NMRISAEGPK	EDENPSASA	TEQPAILEVP..A
hR1Z	300	TPPAEPQP	EDERLEAAA	CEVNDLQEEE	EEEEEEEEE	EEDDDDDDE	DECEEEAEMP
rR1Z	295	TPPAEPQP	EDCKQEVTD	CEVNDLQEEE	EEEEEEEEE	EEEE---	EDCEEEAEMP
Consensus	300	TPPAEPQP	ED.....E...	CEVNDLQEEE	EEEEEEEEE	EEEE....L	..CEEEAEMP
hR1Z	360	NESSKEPEI	RCDEKPEDLL	EERKTSEET	LEDSEVTPA	MQIPRTKEEA	NGDVLETFMF
rR1Z	355	NESSKEPEI	RCDEKPEDLL	EEPOSMSDEA	FEDSPQVTPP	PHTPPRAPEEA	NGDVLETFMF
Consensus	360	NESSKEPEI	RCDEKPEDLL	EE...S.E.	ED...VTP.	...PR...EEA	NGDVLETFMF

FIGURE 1A

hR1Z	PCQHCKERKFT	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FG	TOINRRRRHER	RHE	GLKR	P	420	
rR1Z	PCQHCKERKFA	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FG	TOINRRRRHER	RHE	GLKR	P	415	
Consensus	PCQHCKERKF	TKQGLERHMH	IHIST	NHAF	KCKYCGK	FG	TOINRRRRHER	RHE	GLKR	P	420	
hR1Z	STLQSEDL	ADGKASGENV	PSKDESSPPS	LC	DCLI	NS	EX	SD	INS	S	VEENGINEVK	480
rR1Z	STLQSEDP	DGKASGENV	PSKDESSPPQ	LC	DCLI	NS	EX	SD	INS	S	VEENGINEVK	473
Consensus	STLQSED	DGKASGENV	PSKDESSPP	LC	DCLI	NS	EX	SD	INS	S	VEENGINEVK	480
hR1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LEE	POPPAE	QADATQNVV				539	
rR1Z	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LEE	POPPAE	QAPPSQNVV				533	
Consensus	ELHPCKYCKK	VFGTHTNMRR	HQRRVHERHL	IPKGVRRKGG	LEE	POPPAE	QA...QNVV				540	
hR1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNN		TSNCDVIEME	S	SA	LYGIN		599	
rR1Z	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTNS		TSNCDVIEME	S	SA	LYGID		593	
Consensus	PSTEPEEEGE	DDVYIMDIS	SNISENLNYY	IDGKIQTN..		TSNCDVIEME	S	SA	LYGI		600	
hR1Z	CLLTPVTVEI	TONIKITQVP	VTDLKEPL	QSTNSE	KKR	RTASPP	LPK	IK	ET	SDPM	659	
rR1Z	CLLTPVTVEI	TONIKETQVS	VTDLKDSP	SSTNCESKKR	RTASPP	LPK	IK	ET	ESDST		653	
Consensus	CLLTPVTVEI	TONIKITQV	VTDLK...	STN	KKR	RTASPP	LPK	IK	ET	SD..	660	
hR1Z	UPSCSLSLPL	SISTEVSF	HKEKEVYLSS	KLKQLLOTQD	KLTE	PAC	SA	TEI	KLGPVC		719	
rR1Z	APSCSLSLPL	SISTEVSF	HKEKEVYLSS	KLKQLLOTQD	KLTE	PAC	SA	TEI	KLGPVC		713	
Consensus	PSCSLSLPL	SISTEVSF	HKEKEVYLSS	KLKQLLOTQD	KLTE	PAC	SA	TEI	KLGPVC		720	

FIGURE 1B

hR1Z	VSAPASMLPV	TSSRFKRRTS	SPSSPOHSP	ALRDFCKP	D	GKAAWTD	Q	TSKK	KLESH	779	
rR1Z	ASAPASMLPV	TSSRFKRRTS	SPSSPOHSP	ALRDFCKP	D	GKAAWTD	Q	TSKK	KLES	773	
Consensus	SAPASMLPV	TSSRFKRRTS	SPSSPOHSP	ALRDFCKP	D	GKAAWTD	Q	TSKK	KLES	780	
hR1Z	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQQLDLSS	GVKQKECTG	839
rR1Z	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQQLDLSS	GVKQKECTG	833
Consensus	SDSPAWSLSC	RDERET	SPP	CFDEYK	SKE	W	ASS	FSSV	CNQQLDLSS	GVKQKECTG	840
hR1Z	KTPV	WESVL	DLSVHKK	CS	DSECKEFKE	PS	QPTTCHL	QKVLLNEYNQ		899	
rR1Z	KTPV	WESVL	DLSVHKK	CS	DSECKEFKE	PS	QPTTCHL	QKVLLNEYNQ		889	
Consensus	KTPV	WESVL	DLSVHKK	CS	DSECKEFKE	PS	QPTTCHL	QKVLLNEYNQ		900	
hR1Z	IQLP	ENPAD	QTRSPSPCKS	LE	QDP	LG	P	SCFP	PTV	ES	958
rR1Z	VELP	ETPE	VTRSPSPCKS	PD	QDP	LG	P	SCSV	PTA	ES	949
Consensus	LP	E	TRSPSPCKS	Q	DP	LG	P	S	PT	ES	960
hR1Z	SCQLPPLLP	P	TPSSPPPCP	PVLT	VATPPP	PLL	PTVPL	PA	PS	AS	1018
rR1Z	SCQLPPLLP	P	TPSSPPPCP	PVLT	VATPPP	PLL	PTVPL	SH	PS	AS	1009
Consensus	SCQLPPLLP	P	TPSSPPPCP	PVLT	VATPPP	PLL	PTVPL	..	PS	AS	1020
hR1Z	SPLPILSPTV	SPSPSIPPPV	EPLMSAASPC	PPTL	SSSSSS	SSS	SS	SS	SS	SS	1078
rR1Z	SPLPILSPTV	SPSPSIPPPV	EPLMSAASPC	PPTL	SSSSSS	SSS	SS	SS	SS	SS	1067
Consensus	SPLPILSPTV	SPSPSIPPPV	EPLMSAASPC	PPTL	SSSSSS	SSS	SS	SS	SS	SS	1080

FIGURE 1C

hRIZ	LSA	SSVVSS	GDNLEASLP	ISFKQEE	EN	EGLKPEEP	Q	SAR	QDV	VVQ	ETF	CN	1138
rRIZ	LSA	SSVVSS	GDNLEASLP	VTFKQEE	ES	EGLKPEEP	P	PAD	QDS	VVQ	ETFE	KNF	1126
Consensus	LSA	SSVVSS	GDNLEASLP	FKQEE	E	EGLKPEEP	EE	A	Q	VVQ	ETF	KNF	1140
hRIZ	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VQLFK	KTDL	SEHR	FLHGV	GNIFVCSVCK			1198
rRIZ	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VQLFK	KTDL	SEHR	FLHGV	GNIFVCSVCK			1186
Consensus	VCES	PFLSIK	DLTKHLS	HA	EEWPFKCEFC	VQLFK	KTDL	SEHR	FLHGV	GNIFVCSVCK			1200
hRIZ	KEFA	FLCNLQ	QHQRDLHPDK	VEH	MS	TLRPQNFTDP	SKA	VEH	MS	LPE	PLETS		1258
rRIZ	KEFA	FLCNLQ	QHQRDLHPDE	VEH	MS	TLRPQNFTDP	SKA	VEH	MS	LPE	PLETS		1246
Consensus	KEFA	FLCNLQ	QHQRDLHPD	VEH	MS	TLRPQNFTDP	SKA	VEH	MS	LPE	PLETS		1260
hRIZ	EE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPP	FQYHH	RNPMGIGVTA				1318
rRIZ	EE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPP	FQYHH	RNPMGIGVTA				1305
Consensus	EE	LND	SE	ELYTTIKIMA	SGIKTKDPDV	RLGLNQHYPS	FKPPP	FQYHH	RNPMGIGVTA				1320
hRIZ	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMP	E	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV					1378
rRIZ	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMP	E	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV					1365
Consensus	TNFT	THNIPO	TFTTAIRCTK	CGKGVNDMP	E	LHKHILACAS	ASDKKRYTPK	KNPVPLKQTV					1380
hRIZ	QPKN	GVVVD	NSGKNAFRM	QOPKRU	F	V	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN	1438
rRIZ	QPKN	GVVVD	NSGKNAFRM	QOPKRU	F	V	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN	1425
Consensus	QPKN	GVVVD	NSGKNAFRM	QOPKRU	F	V	EL	KMS	NKL	KL	ALKKKNQ	LVQKAILQKN	1440

FIGURE 1D

hRIZ	1498	KS	AKQKADLK	NA	SSSHIC	PYC	REFTYI	GSLNKHA	A	F	SP	CPKKPL	SP	K	KVSHSS	KKK
rRIZ	1485	RA	AKQKADLR	DT	SSSHIC	PYC	REFTYI	GSLNKHA	A	F	SP	CPKKPL	SP	K	KVSHSS	KKK
Consensus	1500	A	KQKADL		SSSHIC	PYC	REFTYI	GSLNKHA	A	F	SP	CPKKPL	SP	K	KVSHSS	KKK
hRIZ	1558	CH	SP	SSDK	NS	NS	NRRT	AD	AK	EIKMOS	PLCKTRAR	SE	CTQ	V	PLP	SSSFRS
rRIZ	1545	CH	SP	SSDR	NS	NS	NRRT	AD	AK	EIKMOS	PLCKTRAR	SE	CTQ	V	PLP	SSSFRS
Consensus	1560	CH	SP	SSD	NS	NS	NRRT	AD	AK	EIKMOS	PLCKTRAR	SE	CTQ	V	PLP	SSSFRS
hRIZ	1618	K	FAASVKS	KK	SSSLRN	SS	PIRMAK	ITHV	EGKKPK	AVAK	NSAQL	SS	KT	SR	LHVR	VQK
rRIZ	1605	K	FAASVKS	KK	SSSLRN	SS	PIRMAK	ITHV	EGKKPK	AVAK	NSAQL	SS	KT	SR	LHVR	VQK
Consensus	1620	K	FAASVKS	KK	SSSLRN	SS	PIRMAK	ITHV	EGKKPK	AVAK	NSAQL	SS	KT	SR	LHVR	VQK
hRIZ	1678	SK	AV	QSK	ST	LASK	RTDRF	NI	KSRERS	CG	P	TRSLQLAA	AADLSE	NI	RE	DSAK
rRIZ	1665	SK	AV	QSK	TA	LASK	RTDRF	NI	KSRERS	CG	P	TRSLQLAA	AADLSE	NI	RE	DSAK
Consensus	1680	SK	AV	QSK		LASK	RTDRF	NI	KSRERS	CG	P	TRSLQLAA	AADLSE	NI	RE	DSAK
hRIZ	1719	F	SYSRL	LASR	CS	PPA	YIT	RQ	IRKVK	KA	A	AC	FOGPF	K	E	
rRIZ	1707	F	SYSRL	LASR	CS	ST	YIT	RQ	IRKVK	KA	A	AT	FOGPF	K	E	
Consensus	1722	F	SYSRL	LASR	C	...	YIT	RQ	IRKVK	KA	A	A	FOGPF	K	E	

FIGURE 1E

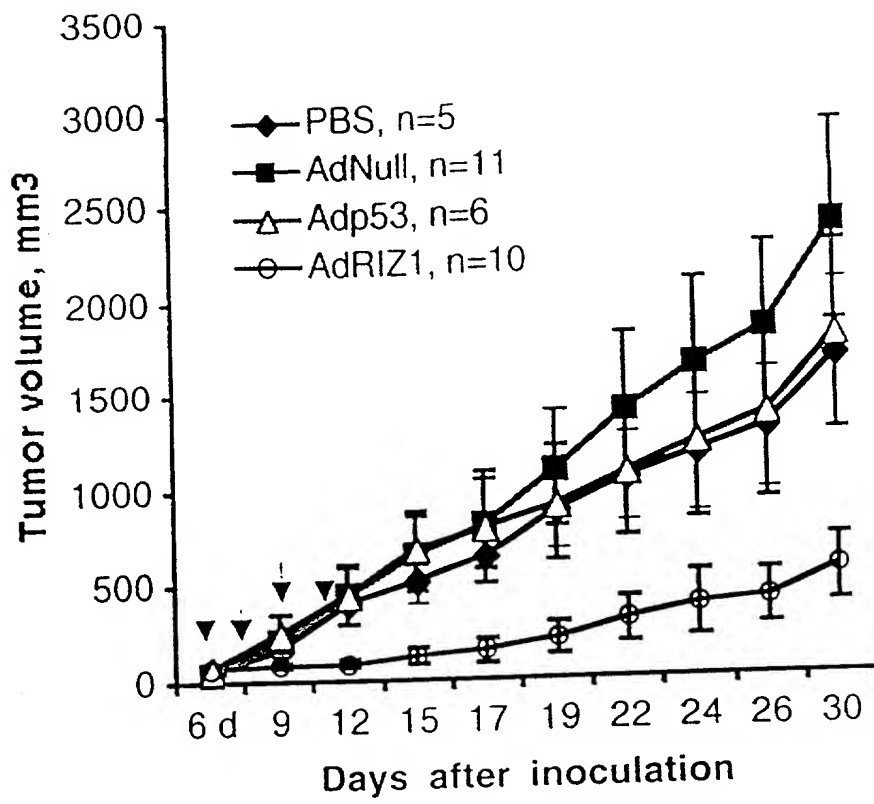


FIGURE 2

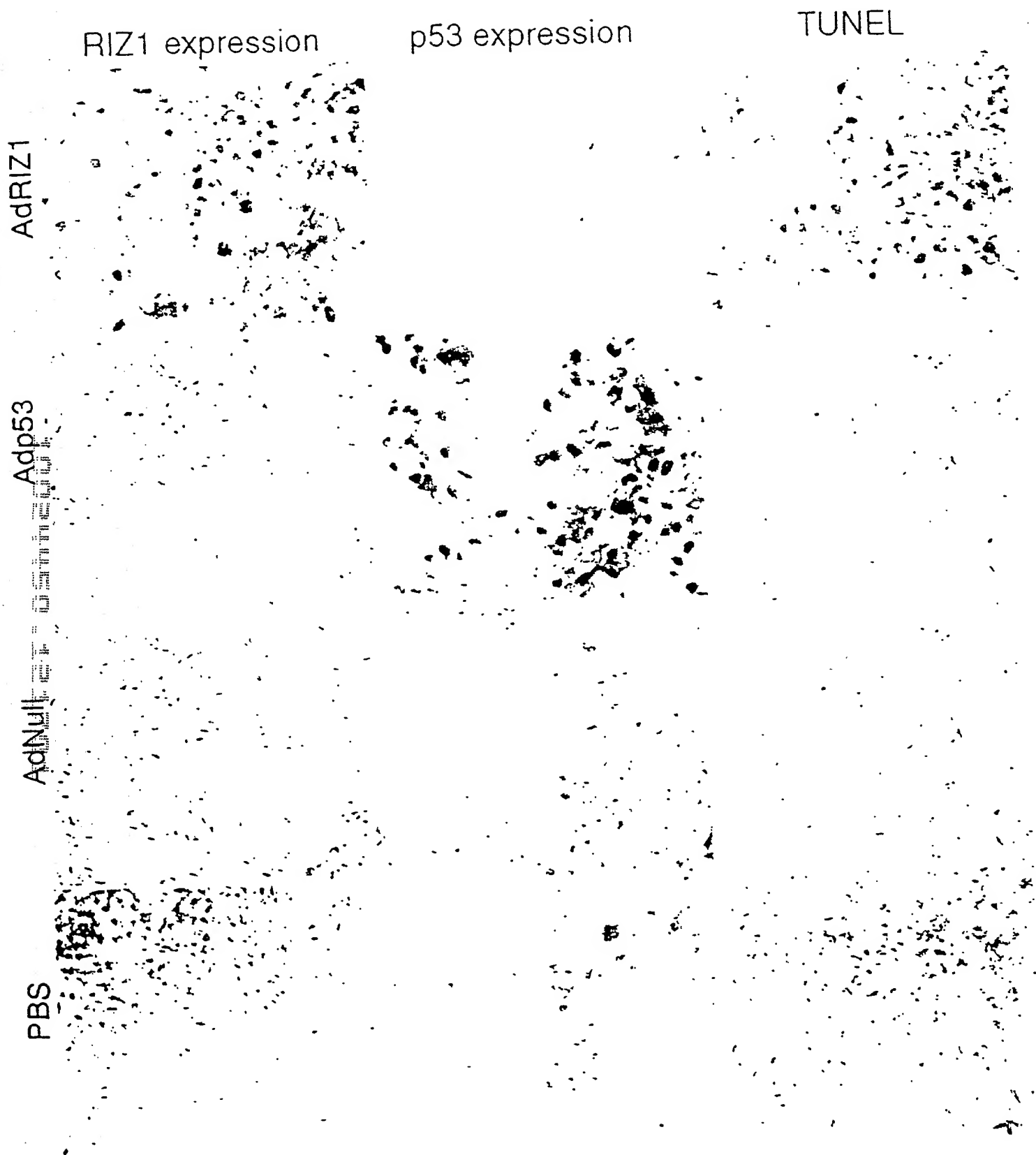


FIGURE 3